Feasibility Study for Reclamation of Confined Disposal Facility (CDF) Storage Capacity

Guiding Assumptions

1) New Jersey Maritime would benefit from additional storage capacity in CDFs.

2) Dredged material in the CDFs can be put to beneficial use.

Guiding Assumptions

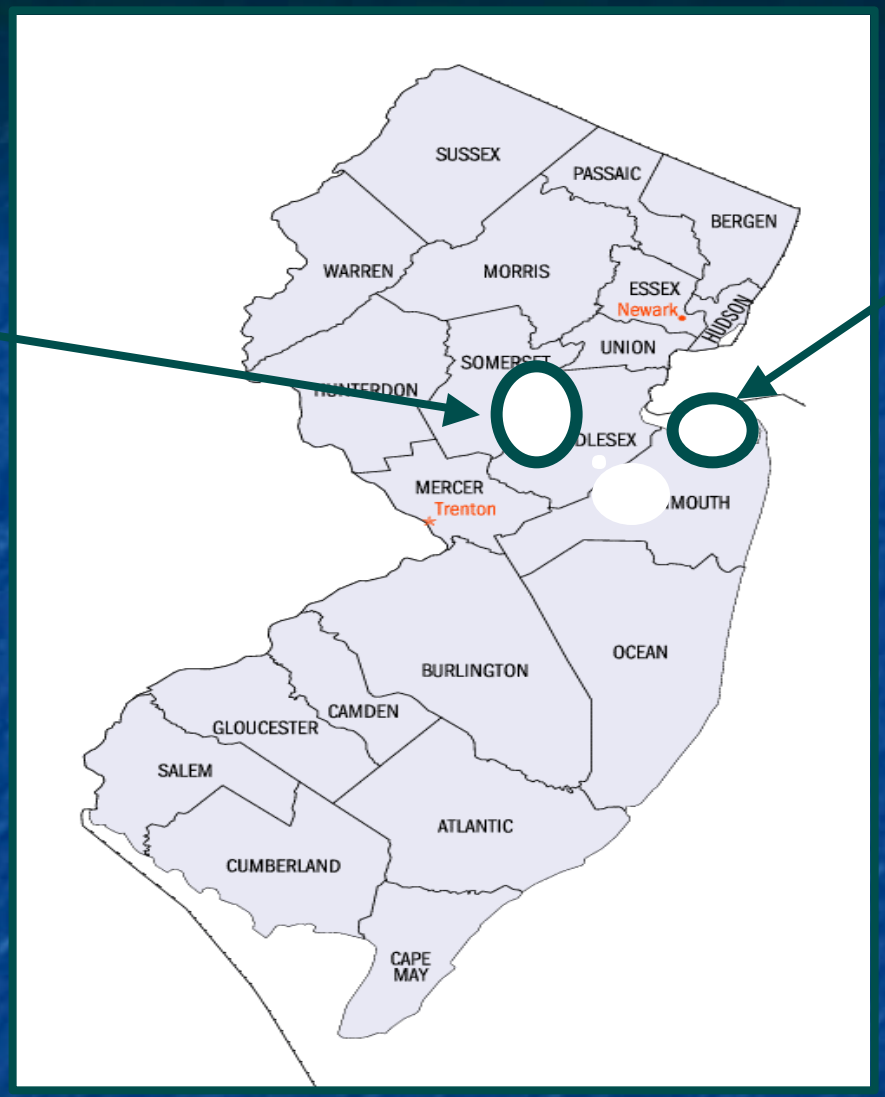
3) U.S. Army Corps of Engineer Projects sponsored by New Jersey require substantial amounts of earthen materials. Dredged material may satisfy some of these needs.

4) Use of dredged material on USACE Projects may lower overall costs borne by the State.

Guiding Assumptions

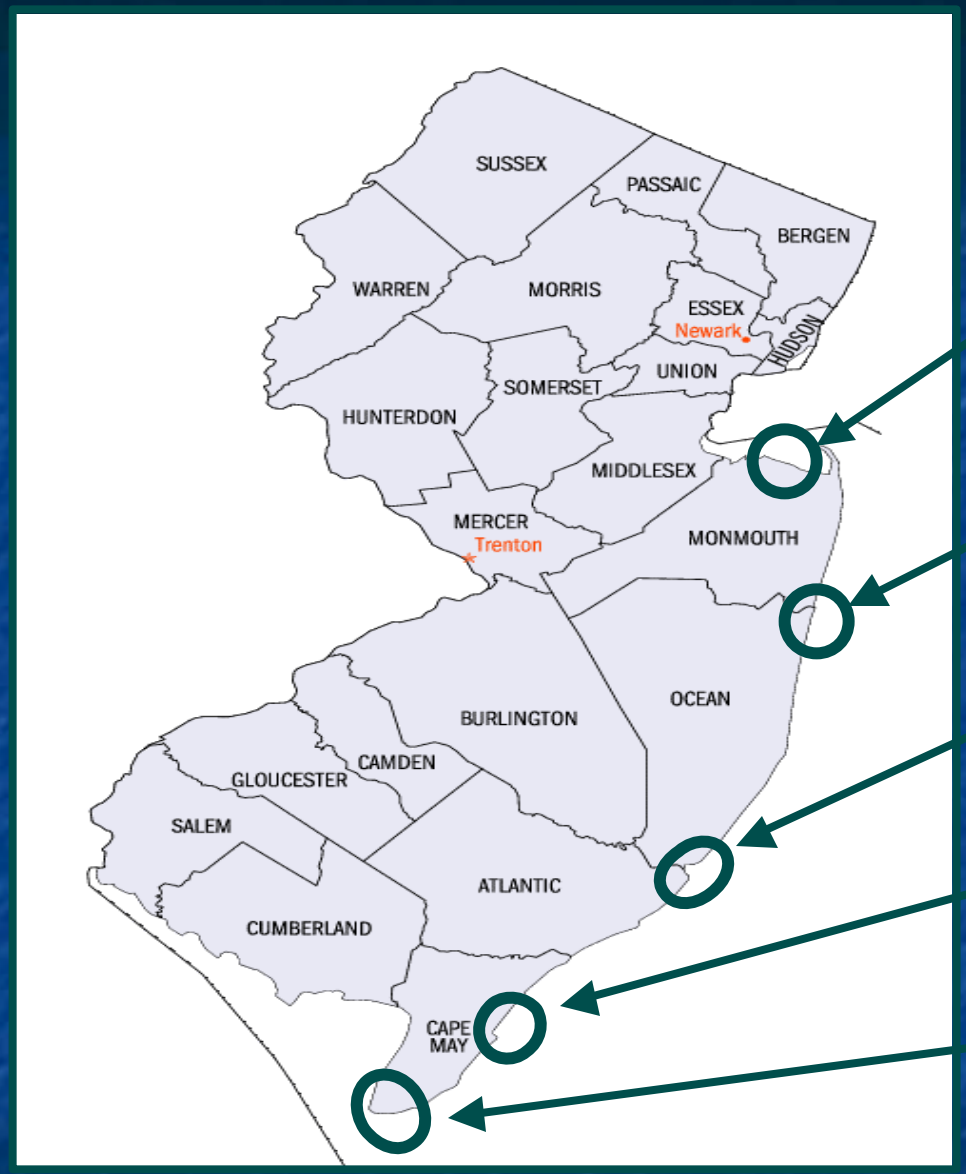
5) With legislative changes, contribution of dredged material could satisfy a portion of New Jersey's cost share on Federal projects.

Green Brook



Port Monmouth, Union Beach, South River

Current US Army Corps of Engineer Projects



Waacaack Creek CDF

Gull Island CDF

Ocean City CDFs

Nummy Island CDF

Cape May CDFs

Targeted Confined Disposal Facilities (CDFs)

Cape May USACE CDF Site C

Cape May Site D - CDF

Green Brook Flood Control Project

Estimated Volumes in CYDs (Thousands)

CDFs Material Volumes		Flood Control Project Material Needs	
Cape May	500	Green Brook	100 +
Nummy Island	150	South River	300
Ocean City 32nd St	300	Union Beach	200
Gull Island	500	Port Monmouth	200
Waacaack Creek	100		
Total in Thousands of Cubic Yards	1550		800+

CHALLENGE

- CDF Locations

Ocean City 32nd St. CDF

Ocean City 32nd St Site

CHALLENGE

- CDF Material Properties

CHALLENGE

COST

- Normal USACE estimated cost for Common Fill is $20 - $25 / CY
- Transport of CDF material can range from $30 / CY to $70 / CY

POTENTIAL

- Material Properties can be defined
- State Cost Share on Flood Control Projects can help
- New WRDA Legislation may improve Cost Share Formula